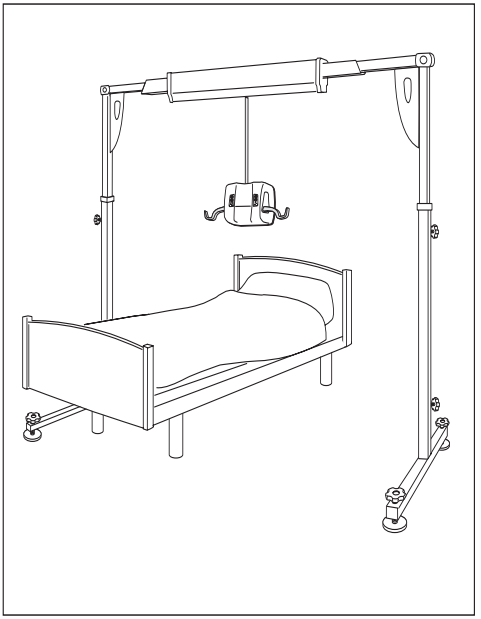
Portable Gantry

user guide

LiteTrack



Wispa

LiteTrack

Chiltern Invadex

Solutions for Living

CE

Portable Gantry System

Contents

Intended use of the Product 2

Things to consider before using the Gantry 2

Assembly Guide 4

Disassembly guide 11

Servicing & maintenance 15

Parts 15

Troubleshooting 16

Gantry Specification 17

Warranty 18

Gantry Service Record 19

This product has been designed to the highest standards with safety, strength and quality in mind.

Follow the recommendations in this guide to ensure maximum benefit from your Wispa LiteTrack Gantry system. Should you experience any difficulties please consult the trouble shooting guide, prior to contacting your LiteTrack Gantry supplier.

Read the safety section of this guide prior to use, this is contained on page 2.

Chiltern Invadex
Solutions for Living

Intended Use of the Product

The Wispa LiteTrack gantry sytem has been designed to lift and transfer a less able person with the help of a carer. The gantry is portable and can easily be relocated and reassembled wherever required. It should be used with the WispaLite Portable Hoist and a Wispa sling or other lifting accessories from the Chiltern Invadex range, as assessed by a trained person.

Note: Not all slings and accessories are compatible with the Wispa Lite hoist. If you are unsure please contact your nearest Chiltern Invadex Office.
The correct and appropriate use of this product will reduce the risks associated with manual patient handling. The lifting/transferring task should be assessed and planned by a trained person.

Safety Considerations

Safety

- Only a single hoist should be attached to the gantry at any one time
- Do not operate the WispaLite Portable Hoist and gantry without training in the safe operation of the hoist, gantry and slings. The gantry should only be assembled by a competent person.
- Only use slings which have been assessed as suitable by a competent person.
- Read the Wispa Lite Portable hoist User Guide in conjunction with this guide.
- Read the relevant Sling User Guide, which is provided with each sling. It explains in detail how to use slings correctly.
- Do not use the Gantry if there is any doubt about the integrity of the gantry, wear to the hoist carry bar or there is fraying or stitch damage to the lifting tape or slings, or if the gantry or hoist itself is damaged in any way.
- Do not exceed the Maximum load of the gantry or hoist.
  Wispa LiteTrack Gantry 210kgs (33 Stone) (460 lb)
  WispaLite Portable Hoist 200kgs (31 Stone) (440 lb)
- Ensure when the gantry and hoist are in use that the surrounding area is clear and the person being lifted is clear of all objects.
- Always ensure the gantry is assembled and adjusted for level using the spirit levels on the end beams.
- There are only 3 width adjustment holes per end beam. The pin must always be located in one of these.

- Always ensure the gantry track is directly above the clients centre of gravity. Hoists should only be used to lift vertically. Lifting at an angle will wear the lifting tape prematurely and affect the stability of the gantry.

- Always ensure the top beam is horizontal and the leg adjustment pin is located in the same position on each side.

- All fixings should be checked on a regular basis.

- The cassette case and mechanical parts should only be removed by a qualified service engineer, trained by Chiltern Invadex.

- Do not touch any of the moving parts in the hoist unit or in the track. Call Chiltern Invadex for assistance.

- Always ensure the legs are positioned as shown in Fig 13 of this user guide

- Take care when moving around the gantry to avoid trip hazards such as the legs, handwheels and potential injury from the corner quadrant.

- Take care when attaching or removing a sling as a swinging carry bar or hoist could cause injury.

- For maximum comfort always move the user in one movement and avoid stop/starting the hoist.
  Some occupants are reassured if the carer holds them whilst the hoist is traversing across the track.

- Never leave a client unattended on the gantry.

- Keep this user guide readily available for other users.

- Always ensure there is sufficient clearance width and height to erect/dismantle the gantry.

After use

- If the gantry is to be dismantled always remove the Wispa Lite portable hoist from the gantry **before** attempting to dismantle the gantry. The hoist should be lowered onto a bed, chair or a Chiltern Invadex transportation trolley before it is disconnected from the gantry track.

- Always follow the assembly/dissassembly instructions contained in this guide.

LiteTrack Gantry Assembly Instructions

Check all components are available prior to assembly.

Notes:
If the gantry is to be assembled over a bed
The gantry can be assembled over a bed **unless** it is occupied. If the bed is occupied assemble the gantry away from the bed and then position afterwards (as a guide this would be approximately 900mm from the head board but **always ensure the gantry track is directly above the clients centre of gravity**).

1. Preparation

1. Unpack all components and lay on the floor ready for assembly.
2. Check all parts are available (see Fig 1) and for damaged components.
3. Safety note: The corner quadrant located on the end beam (see Fig 1) should always have tension. Check to ensure it does not swing freely and there is tension.

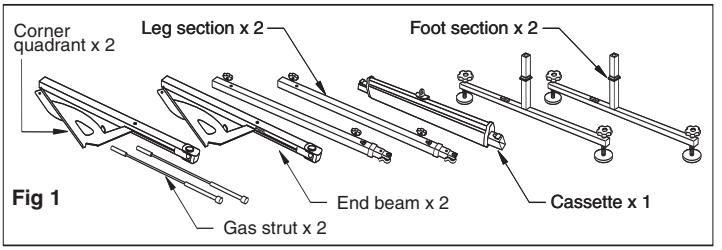


Fig 1

2. Leg assembly

Loosen both black handwheels on the leg as Fig 2 (C & D). Push both release levers in with one hand as Fig 2 (A), pull out the inner leg section to the first position as Fig 2 (B) having let go of the release levers. This should then 'click' into place (the pin will be flush with the top of the block when in the correct position). Secure the leg with the locking knob Fig 2 (C). Note: The height of the unit can be adjusted later when the gantry is fully assembled.

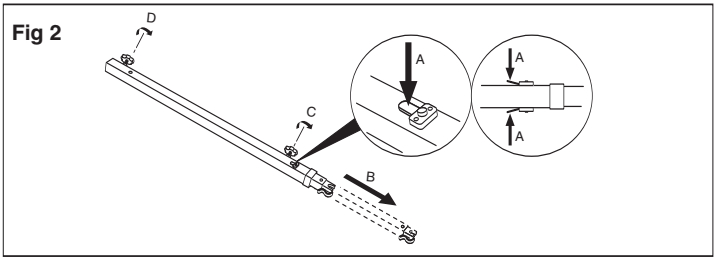


Fig 2

3. Locating the leg and foot sections and inserting the gas strut

Where there is limited head room it is recommended that the foot section is laid on its side for assembly as Fig 3.

Insert the gas strut in the orientation shown in Fig 3.

Place the leg section over the gas strut as Fig 3 (B) **(Note:** Orientate the leg to ensure the top catch bracket is pointing towards the floor), while raising the leg at the same time (taking care not to damage the gas strut), compressing the gas strut and pushing down as far as the moulding on the foot section as Fig 3 (C). **Note: The bottom handwheel needs to be almost all the way out.**

4. The top catch bracket should be located on the inside as Fig 4. Tighten the lower handwheel to secure in place.

Safety note: The leg is not yet free standing. Do not leave the leg unattended. Lay it on the floor, against a bed or wall.

Repeat for other leg.

Fig 3

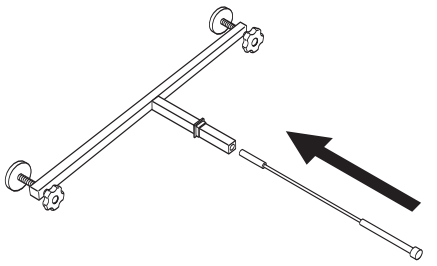


Fig 3B

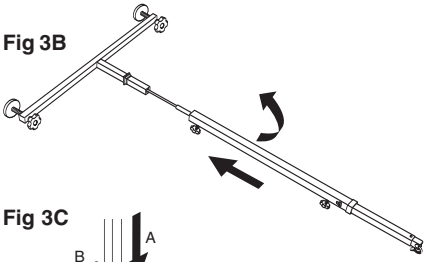


Fig 3C

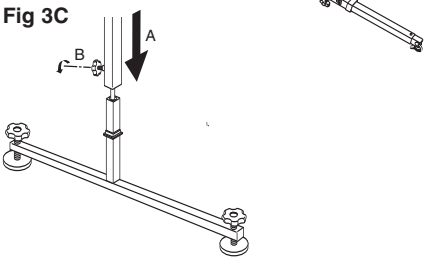
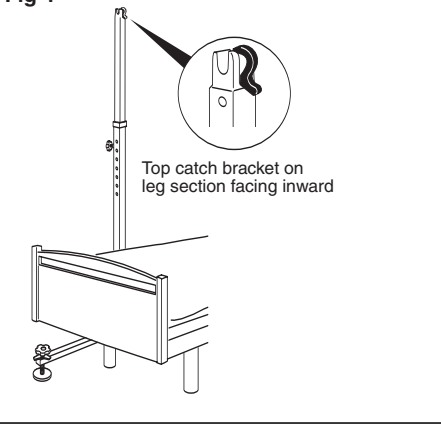


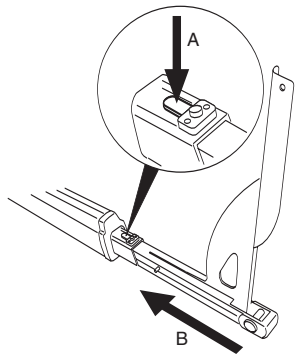
Fig 4



5. Assembling the cassette and end beams
Notes:
1. The end beams which attach to the cassette are identical.
2. The cassette can be positioned either way round.
3. Assemble the cross beam as close to the legs as possible.

Rotate the corner quadrant to the position shown in Fig 5. Push the release lever down with one hand as Fig 5 (A) and slide the end beam into the cassette as Fig 5 (B) having let go of the release lever as the end beam begins to slide, and select the appropriate hole (depending on lifting task - see p14 for Width calculation guide). The end beam will then 'click' into place (the pin will be flush with the top of the block when in the correct position). Repeat for other side.

Fig 5

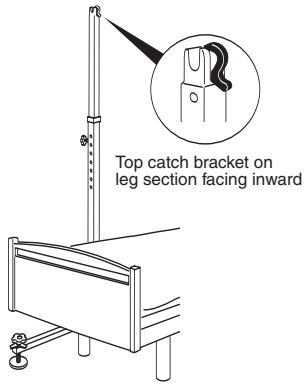


6. Attaching beam to leg section

Please note prior to assembly:

Top catch bracket on the leg section should be on the **inside** to accept the beam as Fig 6.

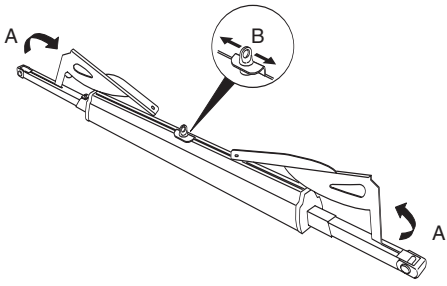
Fig 6



7. Fold over the corner quadrant on both end beams in preparation for connecting to the leg as Fig 7 (A).

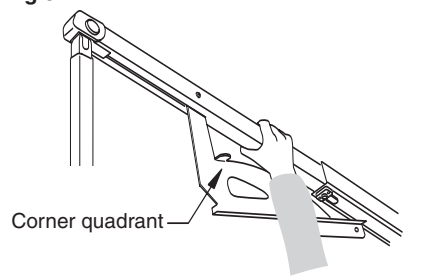
Ensure the cassette is **centralised** in the correct position (latched). To achieve this slide along until it clicks into position in the centre of the rail as Fig 7 (B).

Fig 7



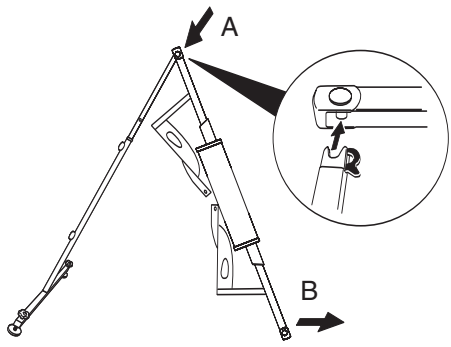
8. **General safety note:** When placing the top beam on the legs always position hand behind the corner quadrant as Fig 8.1.

Fig 8.1



Do not lift the whole cassette section. With one end of the cassette resting on the floor hold the assembled leg with one hand, raise the beam section and place on top of the leg as Fig 8.2 (A).

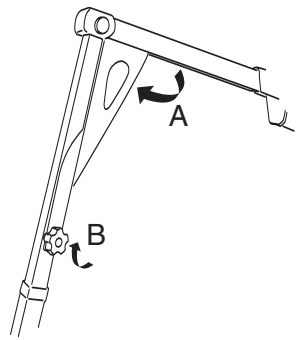
Fig 8.2



9. Securing the cross beam to the cassette

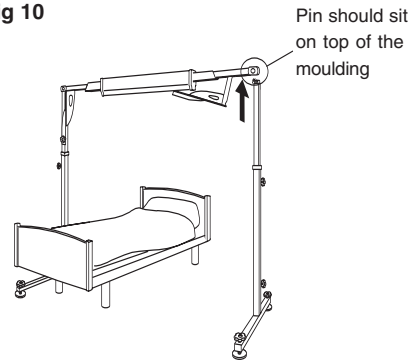
Adjust the position of the leg as Fig 8.2 (B) to allow the corner quadrant to be connected (this should be at 90 degrees to the leg and cross beam).
Pull the corner quadrant back against the leg and hold with one hand against the leg as Fig 9 (A).
Check the cross beam has been locked in position on the legs. Be aware of finger trapping hazard when pulling corner quadrant back against the leg.
Secure in position using the handwheel as Fig 9 (B).

Fig 9



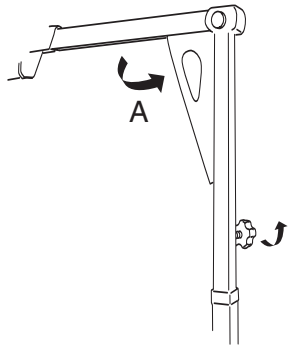
10. Place the second leg within easy reach and raise the end of the beam. Place on top of the second leg as Fig 10. **Note:** Check the pin on the cross beam sits on top of the moulding on the legs as Fig 10.

Fig 10



Pull the corner quadrant back against the leg (at 90 degrees to the leg and cross beam) and hold with one hand against the leg as Fig 11 (A).
Secure in position using the handwheel as Fig 9 (B).

Fig 11



12. Adjusting the height of the gantry

Position the gantry in its required location **prior** to adjusting the height and checking level. Take care when moving the gantry to the desired location. Move one leg at a time in small increments. The gantry should be level in all directions. Check this using the spirit levels on the feet and end beams. Centre the bubble in the spirit level window as Fig 12. Use the large handwheels on the feet to adjust level, as required as Fig 12.

13. If the height of the gantry needs to be raised release the middle handwheel. Hold onto the top handwheel with one hand, pressing the release levers in on the leg with the other hand, and push the leg up to the required height **one hole at a time**, raising one leg and then repeating by the same increment on the other side. Ensure it 'clicks' into position and the pin is flush with the block as Fig B. Secure with the middle handwheel and check for level using the spirit levels on the end beam. Repeat for other side. If the leg height is raised always ensure adequate clearance overhead.

Fig 12

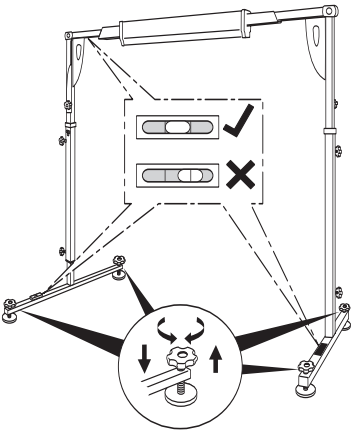
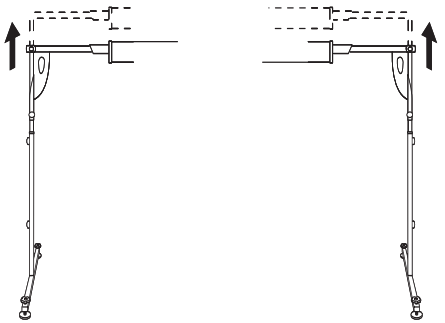
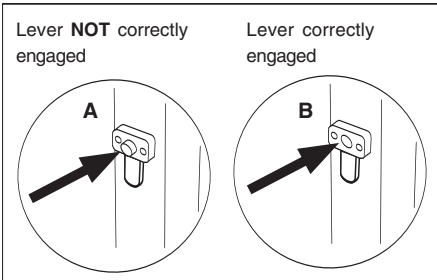


Fig 13



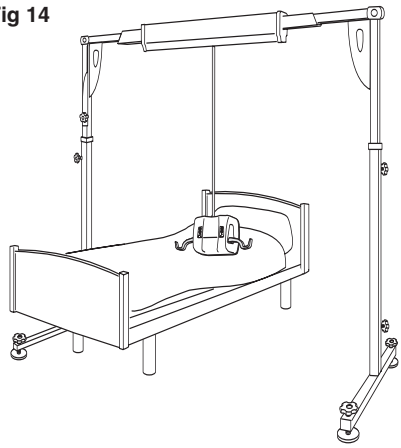


Final positioning

14. Attaching the Wispa Lite Portable hoist

Rest the Portable hoist on the bed or trolley ready for attaching to the eye on the gantry. Release sufficient tape to connect the carabena on the hoist to the eye on the gantry as Fig 14. Do not lift the hoist to attach it to the gantry.

Fig 14



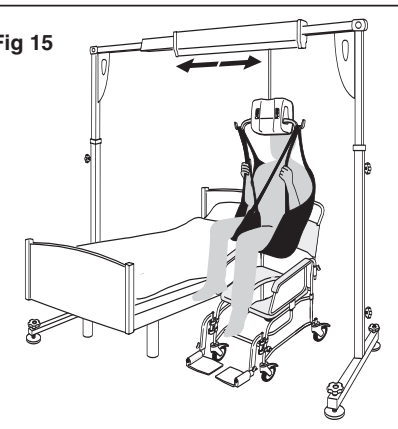
15. Final safety check

Prior to hoisting a client check:

- All handwheels are in place (3 per upright) and they have been securely tightened
- The gantry is level in all directions
- The height and width of the gantry are appropriate for the task eg. there is sufficient space to position a wheelchair or shower chair at the side of the bed for transfer

The gantry is now ready for use. The weight of the hoist will release the cassette and allow it to travel freely along the beam as Fig 15. Slide the hoist across the gantry to the desired position ready to lift/ transfer the client. Take care when moving around the gantry to avoid trip hazards such as the legs, handwheels and potential injury from the corner quadrant or cassette.

Fig 15



16. Disassembly of the gantry

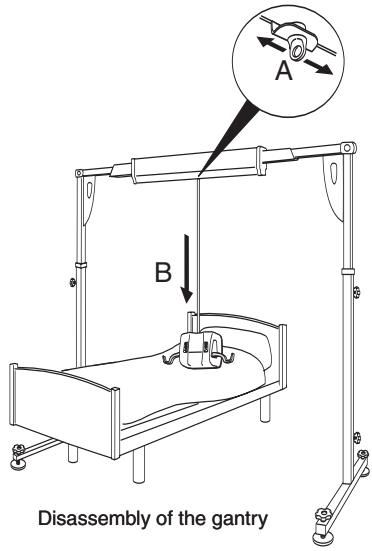
1. **Do not lift the hoist.** Lower the hoist by releasing sufficient tape to disconnect the carabena on the hoist from the eye on the gantry as Fig 16 (B). Remove the hoist from the gantry.

2. Always ensure the cassette is locked in the central position **before** disassembling the gantry. To achieve this slide the cassette along until it clicks into position in the centre of the rail as Fig16 (A).

   If the height of the gantry needs to be lowered release the middle handwheel. Hold onto the top handwheel with one hand, pressing the release levers in on the leg with the other hand, and push the leg down to the required height **one hole at a time**, lowering one leg and then repeating by the same increment on the other side.

3. If the bed is occupied, relocate the gantry to a suitable place ready for disassembly.

Fig 16



Disassembly of the gantry

17. **Important safety note:**

1. Completely remove one leg BEFORE releasing the second leg.

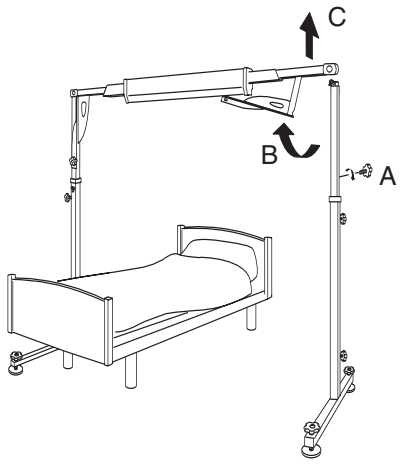
2. Ensure there is sufficient space to lower the gantry.

Remove the upper handwheel which locks the corner quadrant in place as Fig 17 (A)

Fold back the corner quadrant against the cassette as Fig 17 (B) one leg at a time.

Push the beam upwards as Fig 17 (C).

Fig 17

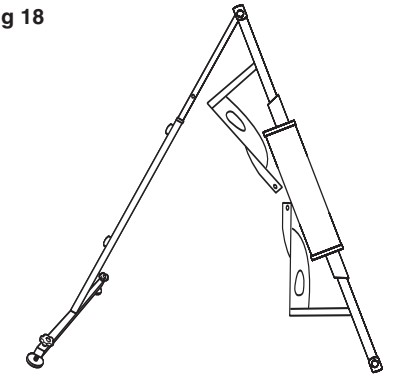


Safety note: The leg is not free standing. Do not leave the leg unattended. Lay it on the floor, against a bed or wall.

18. Lower the beam to the floor as Fig 18 whilst retaining the leg with the other hand.

Repeat for other side.

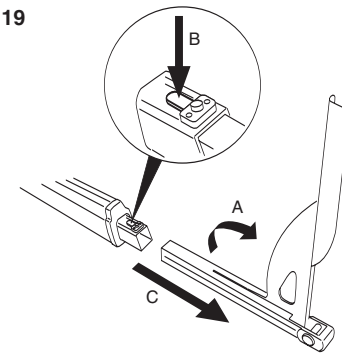
Fig 18



19. Fold back the corner quadrant as Fig 19 (A), depress the release lever as Fig 19 (B) and slide out the end beam section as Fig 19 (C).

Repeat for other side.

Fig 19

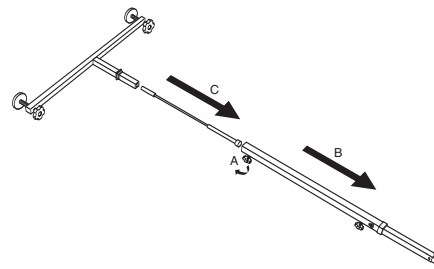


20. Leg disassembly

Where there is limited head room it is recommended that the leg section is laid on its side for disassembly as Fig 20.

Loosen the lower black handwheel as Fig 20 (A). The gas strut and leg section will then slide apart. **Safety note: The gas strut is compressed and will spring out.** Pull the leg section apart from the gas strut as Fig 20 (B) and remove the gas strut from the foot section (C). Repeat for other side.

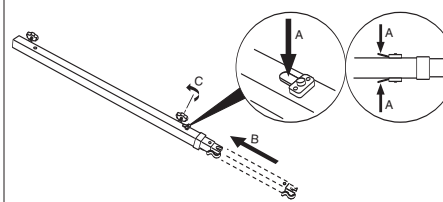
Fig 20



21. Ensure top handwheel is loose and depress the release levers as Fig 21 (A) and push the leg section down to the lowest position as Fig 21 (B). Fasten both handwheels (C) for safe transportation.

Repeat for other side.

Fig 21



Width calculation guide

The table below can be used as a quick reference guide to help determine the internal width of the gantry (depending on the hole position which has been selected). For example - when the first hole position is selected on the end beam and the same on the right end beam the internal width is 1890mm, which will typically allow the transfer of a client from a single bed to a shower chair).

	RIGHT			
LEFT	**Hole position**	**1**	**2**	**3**
	1	**1890** (Typical single bed to shower chair)	**2020** (Typical single bed to riser/recliner chair)	**2150** (Typical domestic double bed to shower chair)
	2	**2020** (Typical single bed to riser/recliner chair)	**2150** (Typical domestic double bed to shower chair)	**2280** (Typical nursing double bed to shower chair)
	3	**2150** (Typical domestic double bed to shower chair)	**2280** (Typical nursing double bed to shower chair)	**2410** (Typical double bed to riser/recliner chair

Dimensions are in mm and for guidance only

Servicing and Maintenance

Based upon EN10535:1998 and Health and Safety Executive guidance Chiltern Invadex recommend that hoists and gantry systems are fully serviced, including a load test, at least every 12 months with an interim six monthly inspection to LOLER requirements. Prices are available from Chiltern Invadex Service Offices. The frequency of servicing should be increased in areas where the environment or heavy usage may cause deterioration of the equipment. Further details can be obtained from any Chiltern Invadex Office, shown on the back of this booklet.

Chiltern Invadex and its Authorised Dealers are able to carry out all aspects of servicing and maintenance work.
Maintenance of this equipment should only be conducted by engineers trained and certified by Chiltern Invadex.
Keep the service record (at the back of this booklet) up to date.

DO NOT USE IF:

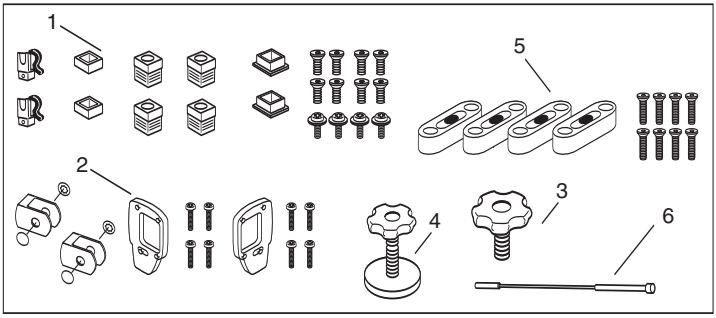
1. There is any damage to the hoist or gantry.
2. There is fraying or stitch damage to the lifting tape, or slings.
3. Any of the gantry parts are missing or damaged

To ensure maximum cleanliness

Wipe with a dry cloth (Gantry and hoist). For stubborn marks use a damp cloth and a mild cleanser. Always read the manufacturers instructions prior to applying the cleanser. Avoid using cleaning agents which contain chlorine, carbolic acid or other strong chemicals as these may damage the metalwork and plastic components.

Parts

item	description	qty	part no
1	Upright mouldings kit (all mouldings for legs)	1	360-80001
2	Beam mouldings kit (all mouldings for horizontal beam)	1	360-80002
3	Hand Wheel (Black)	1	COM0081
4	Levelling Foot Kit	1	360-80011
5	Spirit Level spares kit (x4 spirit levels)	1	360-80003
6	Gas strut assembly spares kit (x1)	1	360-80004



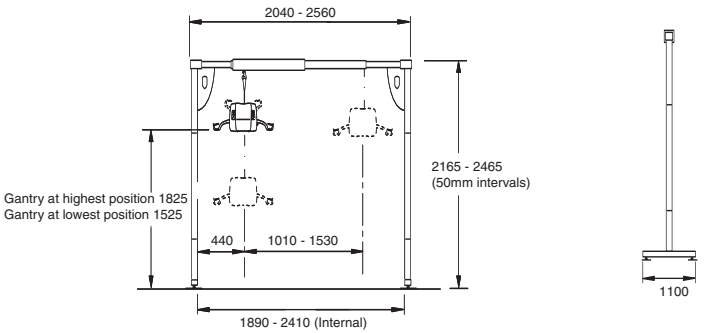
Note: Replacement parts should only be installed by trained personnel. The gantry then needs testing once parts have been replaced.

Troubleshooting

symptom	suggested cause	solution
Cassette travels further in one direction along the beam than the other	Cable tension is incorrect	Contact Chiltern Invadex for assistance
Pins do not click into position on the leg	Leg section is incorrectly positioned	Adjust leg position
Pins do not click into position on the end beam/cassette	End beam section is incorrectly positioned	Adjust end beam position
Spring mechanism is stuck on the leg/end beam section	Push pin in manually	If problem persists contact Chiltern Invadex for assistance
Spring mechanism has failed on the leg/end beam section and will not push in manually	Spring mechanism is damaged	Contact Chiltern Invadex for assistance
Height of feet cannot be adjusted	Thread on feet is damaged or twisted	See replacement parts list in this booklet. Contact Chiltern Invadex for parts.
Cannot check gantry is level	Spirit levels are damaged or broken	Contact Chiltern Invadex for replacement parts.
Lifting eye on cassette will not come down	Spring mechanism is defective/damaged	Contact Chiltern Invadex for assistance
Corner quadrant will not fold back against the leg	Gantry leg not positioned correctly to accept the corner quadrant. Corner quadrant is defective/damaged	Reposition gantry leg at 90 degrees. Contact Chiltern Invadex for assistance
There is no tension in the corner quadrant	Washers in the corner quadrant are damaged/ defective. Adjust grub screws	Contact Chiltern Invadex for assistance. Check tension
Leg does not raise easily/falls under gravity	Gas strut is damaged	Contact Chiltern Invadex for assistance
Gas strut will not compress	Gas strut is damaged	Contact Chiltern Invadex for assistance

Further assistance
Please telephone any Chiltern Invadex Office for further assistance. Remember that service calls made after the guarantee period will be chargeable. If the maintenance of the equipment is the responsibility of a third party, for example the Social Services, please contact them in the first instance.

Gantry Specification



Lifting capacity	210 Kg (33 stone)(460 lb) including hoist
Construction	Legs - steel Track - Aluminium Cassette - Aluminium with ABS cover
Lifting Range	Approximately 1525mm - 1825mm
Maximum loading per foot	100kg (16 stones) (220lb) (provided that the gantry is used in accordance with the instructions in this user guide)

Assembled component weights:

Lower Leg section (x2) 7kg each (15.5lb)
Upper Leg section 8kg each (18lb)
Cassette (x1) 11kg (24lb)
End section/corner quadrant (x2) 5kg each (11lb)
Gas strut (x2) 1kg each (2.2lb)

Total weight of gantry 53kg (116lb)

CE MARK
The Chiltern Invadex Wispa LiteTrack Gantry carries the CE mark and complies with EC Directives: Medical Device Directive(93/42/EEC)

Warranty

Your Chiltern Invadex Wispa LiteTrack Gantry carries a 2 year warranty from the date of purchase, subject to the following :-

1. Should you experience any problems with our workmanship or materials within the first 2 year period please contact your point of purchase.

2. Repairs made during the warranty period will be carried out free of charge, provided the product has been used strictly in accordance with the guidelines set out in this user guide.

3. Our warranty does not cover replacements, adjustments or repairs which may be required as a result of normal wear and tear, wilful or accidental damage, misuse, neglect or any other cause which is beyond the control of Chiltern Invadex.

4. Modifications and repairs made to this product by unauthorised persons will render the warranty void.

5. Only parts manufactured or approved by Chiltern Invadex shall be used to repair this product. Use of unauthorised parts will invalidate all warranties and remove all liability from Chiltern Invadex for the safety of this product.

6. Chiltern Invadex shall in no event be liable for any damages, costs or expenses arising from any claim made under this warranty (save for any legal liability of Chiltern Invadex for death or personal injury resulting from the company's negligence in respect of its products).

7. This warranty does not affect your statutory consumer rights.

Gantry Service Record

Serviced By
(company) .....

Telephone no.....

Engineers training cert. no. Signature

....

Date: ..... Load Tested To: .....Kgs

Comments.....

.....

Serviced By
(company) .....

Telephone no.....

Engineers training cert. no. Signature

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Date: ..... Load Tested To: .....Kgs

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(company) .....

Telephone no.....

Engineers training cert. no. Signature

....

Date: ..... Load Tested To: .....Kgs

Comments .....

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Please fill in the information below for future reference

Dealers Name

.....

Address

.....

.....

..... Post Code.....

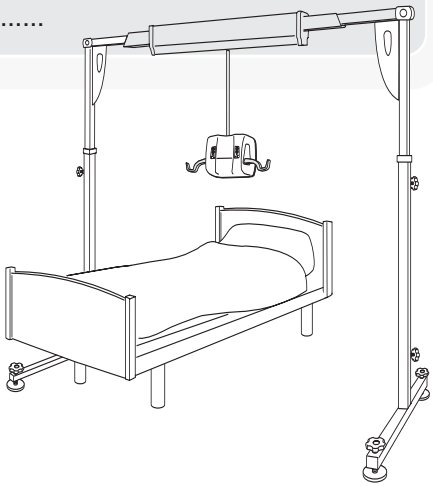
Telephone .....

Your Serial Number is

.....

Date of purchase

.....



Models covered

OHWLTRK-1
OHWLTRK-2

Gantry System LiteTrack

23

Chiltern Invadex
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